

ABSTRACT

A system and software for improving the performance of processors by incorporating an execution unit operable to decode and execute single instructions specifying a data selection operand and a first and a second register providing a plurality of data elements, the data selection
5 operand comprising a plurality of fields each selecting one of the plurality of data elements, the execution unit operable to provide the data element selected by each field of the data selection operand to a predetermined position in a catenated result.